# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		10		
LM End		Issue Type +	Ma	Location * N/A				
Category	Earthen L	evee		GPS La	atitude	e/Longitude		
Calegory				Start		End		
Item		s & Maintena	nce		0		0	
пеш	Manuals				0		0	
DWR ID	DWR_ST0	010_01_s _ 201	3_10					
		Comn	nent Cod	le				
		Inspecto	or Comm	nent				
The LMA h	nas the O8	M manuals.						

No Photos

LM Start		Rating **	Α	Issue No.		11			
LM End		Issue Type +	Ма	Location *		N/A			
Category	Catagony Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item		cy Supplies &			0		0		
пеш	Equipmer	nt			0		0		
DWR ID	DWR_ST0	010_01_s _ 201	3_11						
		Comn	nent Cod	le					
		Inspecto	or Comm	nent					
The LMA h	The LMA has flood fight supplies and equipment.								

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start		Rating **	Α	Issue No.		12		
LM End		Issue Type +	Ма	Location *		N/A		
Category	Earthen L	evee		GPS La	atituc	le/Longitude		
Calegory				Start		End		
Item	Flood Pre	paredness &	Training		0		0	
пеш					0		0	
DWR ID	DWR_ST0	010_01_s _ 201	3_12					
		Comn	nent Coc	le				
	Inspector Comment							
The LMA o	completed	flood fight trai	ining in 2	014.				

No Photos

LM Start	0.06	Rating **	М	Issue No.		20
LM End	0.12	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS L	atitud	e/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		39.1142	203°	39.114842°
пеш				-121.768015 °		-121.767382°
DWR ID	DWR_ST0	010_01_f _ 2016	5_20			·
		Comn	nent Cod	de		
E1 : Note	and monito	or erosion site				
		Inspecto	or Comm	nent		
Monitor th	e erosion a	along the wate	rside to	Э.		



View of the erosion along the waterside toe.

LM Start	0.38	Rating **	М	Issue No.		19
LM End	0.38	Issue Type +	Ма	Location *		WS
Category	evee	GPS La	atitud	e/Longitude		
Category				Start		End
Item	Erosion /	Bank Caving		39.1179	10°	39.117910°
item				-121.7644	97°	-121.764497 °
DWR ID	DWR_ST0	010_01_f _ 2016	6_19			
		Comn	nent Cod	le		
E1 : Note a	and monito	or erosion site	-			
		Inonacto	or Comm	ant.		
		mspecio	or Comm	ieni		
Monitor the	e erosion a	long the wate	rside to	€.		



View of the erosion along the waterside toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	0.56	Rating **	U	Issue No.		18
LM End	0.56	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS L	atitud	e/Longitude
Calegory				Start		End
Item	Erosion /	Bank Caving		39.1199	85°	39.119985 °
пеш				-121.762600 °		-121.762600 °
DWR ID	DWR_ST0	010_01_s _ 201	7_18			
		Comn	nent Cod	de		
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.
Inspector Comment						
Repair the	Repair the erosion along the water side toe.					



View of the erosion along the waterside toe caused by a tree that fell into the water.

LM Start	1.75	Rating **	М	Issue No.		7
LM End	2.39	Issue Type +	Ma	Location *		WS
Category				GPS La	atitud	e/Longitude
Category				Start		End
Item		2015 USACE Erosion Survey,				39.141757 °
пеш	DRAFT			-121.7495	26°	-121.742939 °
DWR ID	DWR_ST0	010_01_s _ 201	6_7			
		Comn	nent Cod	le		
		Inspecto	or Comm	nent		

2011 - Whole bank is starting to unravel, with failure from poor soils. 2015: Site is part of the extended inventory, last inspected 2011. [2015] Site ID: WAD\_2-1\_L]

No Photos

N: Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

		II.				
LM Start	1.85	Rating **	U	Issue No.		107
LM End	1.85	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Erosion /	Erosion / Bank Caving			10°	39.135110°
пеш				-121.748230 °		-121.748230 °
DWR ID DWR_ST0010_01_f _ 2013_107						
		Comn	nent Cod	le		
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Repair the erosion under the abandoned pump.						

Photo 1 of 3: SP_2017_ST0010_42_107_20170315_00014.jp	pg
11	
10/23/2013	

View of the erosion along both sides of the abandoned pump.

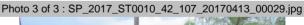
# LM Start 1.85 Rating \*\* U Issue No. 107 (cont) LM End 1.85 Issue Type + Ma Location \* WS

Photo 2 of 3: SP\_2017\_ST0010\_42\_107\_20170315\_00015.jpg



View of the erosion along both sides of the abandoned pump.

LM Start	1.85	Rating **	U	Issue No.	107 (cont)
LM End	1.85	Issue Type +	Ma	Location *	WS





View of erosion along both sides of the abandoned pipe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	1.85	Rating **	М	Issue No.		106	
LM End	1.85	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Co	ontrol		39.135110°		39.135110°	
пеш				-121.7482	29°	-121.748229 °	
DWR ID	DWR_ST0010_01_f _ 2013_106						
Comment Code							

A3 : No rodents visible, but rodent burrows visible; need to backfill and

compact or grout burrows.

#### Inspector Comment



View of the rodent holes under the irrigation pipe.

LM Start	2.43	Rating **	М	Issue No.	6		
LM End	3.30	Issue Type +	Ma	Location *		WS	
Category	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item		2015 USACE Erosion Survey, DRAFT			35°	39.153095 °	
item	DRAFT				09°	-121.734390 °	
DWR ID	D DWR_ST0010_01_f _ 2015_6						
Comment Code							

### Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD\_2-4\_L]

LM Start	2.43	Rating **	М	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS

### Photo 1 of 4: SP\_2017\_ST0010\_42\_6\_20170315\_00006.jpg



View of the erosion along the waterside toe.

Photo 2 of 4 : SP\_2017\_ST0010\_42\_6\_20170315\_00007.jpg



View of the erosion along the waterside toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	2.43	Rating **	М	Issue No.		6 (cont)	
LM End	3.30	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Itom	2015 USACE Erosion Survey, DRAFT			39.142235 °		39.153095 °	
пеш				-121.742609 °		-121.734390°	
DWR ID DWR_ST0010_01_f _ 2015_6							
Comment Code							

#### Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD\_2-4\_L]

LM Start	2.43	Rating **	М	Issue No.	6 (cont)
LM End	3.30	Issue Type +	Ma	Location *	WS



View of the erosion along the waterside toe.

#### Photo 4 of 4: SP\_2017\_ST0010\_42\_6\_20170315\_00009.jpg



View of the erosion along the waterside toe.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	3.04	Rating **	М	Issue No.		111		
LM End	3.04	Issue Type +	Ma	Location *		WS		
Category	Supplemental				GPS Latitude/Longitude			
Calegory				Start		End		
Item	DWR UCIP LMA Responsibility			39.14954	19°	39.149549 °		
пеш				-121.73640	)8 °	-121.736408 °		
DWR ID								

# Comment Code

Inspector Comment

FS\_ID:51500 DS ID:17065 EP\_NO: 7209

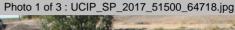
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard-

AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)]. FS Date: 4/12/2017 9:39:10 AM

LM Start	3.04	Rating **	М	Issue No.	111 (cont)
LM End	3.04	Issue Type +	Ma	Location *	WS





36-inch pipe with flapgate on WS slope.

### Photo 2 of 3: UCIP\_SP\_2017\_51500\_64717.jpg



Inlet in weeds on LS toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	3.04	Rating **	М	Issue No.		111 (cont)	
LM End	3.04	Issue Type + Ma		Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	DWR UCIP LMA Responsibility			49 °	39.149549 °	
пеш				-121.73640	08°	-121.736408 °	
DWR ID							

# Comment Code

#### Inspector Comment

FS\_ID:51500 DS ID:17065 EP\_NO: 7209

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Ws pipe end is in good condition. LS pipe end is still deformed and vegetated. (DWR Sutter Yard-

AFreitag)10/12/2016 LS inlet is still deformed and being overgrown by vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Crossing appears to be in good condition.5/12/2015 LS inlet still deformed a little but does not affect the crossing function.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Pipe intake on LS appears to be bent and damaged but that does not appear to be affecting water flow or channel bank.

FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch USACE O&M pipe replaced with new 30-inch pipe) through the levee, 9 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 160+25)].

FS Date: 4/12/2017 9:39:10 AM



Pipe inlet heavily shielded by vegetation.

LM Start	3.53	Rating **	М	Issue No.		3		
LM End	3.56	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End			
Item	Erosion /	Bank Caving		39.15622	5 °	39.156639°		
пеш			-121.73293	) °	-121.732755 °			
DWR ID DWR_ST0010_01_s _ 2012_3								

### Comment Code

E1: Note and monitor erosion site.

#### Inspector Comment

Monitor the erosion along the waterside toe.

#### Photo 1 of 1: SP\_2017\_ST0010\_42\_3\_20170315\_00001.jpg



View of the erosion along the waterside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

WS

LM Start	3.65	Rating **	M	Issue No.		4		
LM End	3.65	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Erosion / Bank Caving			39.1578	61 °	39.157861 °		
пеш			-121.732238 °		-121.732238 °			
DWR ID	DWR ID DWR_ST0010_01_s _ 2012_4							
		Comn	nent Cod	le				
E1 : Note a	and monito	or erosion site	•					
		Inspecto	or Comm	nent				
Monitor the	e erosion a	long the wate	rside to	9.				

E1 : Note and monitor erosion site.									
Inspector Comment									
Monitor the erosion along the waterside toe.									
LM Start	3.65	Rating **	М	Issue No.	4 (cont)				

Ma

Location

Issue Type +

LM End

3.65

Photo 1 of 2: SP\_2017\_ST0010\_42\_4\_20170315\_00002.jpg



View of the erosion along the waterside toe of the levee.

Photo 2 of 2: SP\_2017\_ST0010\_42\_4\_20170315\_00003.jpg



View of the erosion along the waterside toe.

LM Start	3.84	Rating **	М	Issue No.		17	
LM End	3.85	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /		39.1604	42°	39.160517°		
пеш				-121.7310	67°	-121.731137 °	
DWR ID DWR_ST0010_01_f _ 2014_17							
		Comn	nent Cod	le			
E1 : Note	and monito	or erosion site	•				
		Inspecto	or Comm	nent			
Monitor the	e erosion a	long the wate	rside toe	<del>)</del> .			



* Location		** Rating		+ Issue Type
LS: Land Side	N/A: Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Wadsworth Canal	Left	4.63	04/11/2017 04/11/2017	Bob Duffey

LM Start	4.23	Rating **	М	Issue No.		5			
LM End	4.23	Issue Type +	Ma	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Erosion /	Bank Caving		39.1658	45°	39.165845 °			
item	<del>!</del> !!!!				77 °	-121.728877 °			
DWR ID	DWR ID DWR_ST0010_01_s _ 2012_5								
		Comn	nent Cod	le					
E1 : Note a	and monito	or erosion site	•						
		Inspecto	or Comm	nent					
Monitor the erosion along the waterside toe.									

LM Start	4.23	Rating **	М	Issue No.	5 (cont)
LM End	4.23	Issue Type +	Ма	Location *	WS



View of the erosion along the waterside toe.

Photo 2 of 2: SP\_2017\_ST0010\_42\_5\_20170315\_00005.jpg



View of the erosion along the waterside toe.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	1.16	Rating **	U	Issue No.	19			
LM End	1.16	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Animal Co		39.1275	27°	39.127527°			
пеш				-121.756493 °		° -121.756493 °		
DWR ID	DWR_ST0	010_02_f _ 2016	6_19					
		Comn	nent Coo	le				
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.								
Inspector Comment								
Repair the	rodent ho	les along the	waterside	e slope.				

LM Start	1.16	Rating **	U	Issue No.	19 (cont)
LM End	1.16	Issue Type +	Ma	Location *	WS



View of the rodent holes along the waterside slope.

#### Photo 2 of 2: SP\_2017\_ST0010\_43\_19\_20170413\_00035.jpg



View of the rodent holes along the waterside slope.

1.17	Rating **	С	Issue No.		3			
1.17	Issue Type +	Ма	Location *		LS			
Earthen L	evee		GPS La	atitud	e/Longitude			
			Start		End			
Slope Sta	bility		39.1276	48 °	39.127648 °			
		-121.756345 °		15° -121.756345°				
DWR ID DWR_ST0010_02_s _ 2012_3								
	Comn	nent Cod	le					
		ed by ve	hicle traffic	and	prevent			
	Inspecto	or Comm	ent					
de slope w	as repaired.							
	1.17 Earthen L Slope Sta  DWR_STOO the levee	1.17 Issue Type + Earthen Levee Slope Stability  DWR_ST0010_02_s _ 2012 Common the levee slope damagere possible.	1.17 Issue Type + Ma  Earthen Levee  Slope Stability  DWR_ST0010_02_s_2012_3  Comment Coo the levee slope damaged by vere possible.  Inspector Comm	1.17 Issue Type + Ma Location *  Earthen Levee GPS La Start  Slope Stability 39.1276 -121.7563  DWR_ST0010_02_s _ 2012_3  Comment Code  The levee slope damaged by vehicle trafficere possible.  Inspector Comment	1.17 Issue Type + Ma Location *  Earthen Levee GPS Latitud Start  Slope Stability 39.127648 ° -121.756345 °  DWR_ST0010_02_s _ 2012_3 Comment Code  The levee slope damaged by vehicle traffic and ere possible.  Inspector Comment			

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	1.17	Rating **	М	Issue No.		23			
LM End	1.17	Issue Type +	Ма	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Encroach	ments		39.1277	'27 °	39.127727°			
пеш				-121.7563	° 808	-121.756308 °			
DWR ID DWR_ST0010_02_s _ 2017_23									
		Comn	nent Cod	de					
GA : Garb	age								
		Inspecto	or Comm	nent					
Remove th	Remove the garbage from the waterside slope.								



View of the garbage along the waterside slope.

LM Start	1.68	Rating **	М	Issue No.		24			
LM End	1.68	Issue Type +	Ма	Location *	WS				
Category	Earthen Levee				atituc	de/Longitude			
Calegory				Start		End			
Encroachments Item				39.1336	02°	39.133602°			
пеш				-121.750545 °		5° -121.750545°			
DWR ID	DWR ID DWR_ST0010_02_s _ 2017_24								
		Comn	nent Cod	le					
PR : Pruni	ngs								
		Inspecto	or Comm	nent					
Remove the prunings from the waterside toe.									



View of the prunings along the waterside toe.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	1.74	<b>1.74</b> Rating ** M		Issue No.		10	
LM End	2.37	Issue Type +	Ma	Location *		WS	
Catagony	Supplemental				atitud	le/Longitude	
Calegory	Category			Start		End	
Item		ACE Erosion S	Survey,	39.1340	64 °	39.141814	0
item	DRAFT				81 °	-121.743260	0
DWR ID DWR_ST0010_02_s _ 2016_10							
		Comn	nent Cod	le			

#### Inspector Comment

2011 - Whole bank is starting to unravel, with failure from poor soils. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD\_2-1\_R]

No Photos

LM Start	1.75	Issue No.		20		
LM End	1.75	Issue Type +	Ma	Location *		WS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Slope Sta	bility		39.1343	78°	39.134378 °
iteiii				-121.7498	03 °	-121.749803 °
DWR ID DWR_ST0010_02_f _ 2016_20						

### Comment Code

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Ramp is causing depression in the levee slope.

# Photo 1 of 1: SP\_2017\_ST0010\_43\_20\_20170315\_00015.jpg



View the ramp encroaching into the levee.

LM Start	1.76	Rating **	Issue No.		11		
LM End	1.76	Issue Type + Ma		Location *	Location *		
Category Earthen Levee				GPS Latitude/Longitude			
Category			Start		End		
Item	Animal Co	ontrol		39.134490	o	39.134490	0
пеш			-121.74971	o°	-121.749716	0	
DWR ID DWR_ST0010_02_f _ 2012_11							

### Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

Repair the rodent hole.



View of the rodent holes above the irrigation pipe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	1.76	М	Issue No.		11 (cont)	
LM End	1.76	Issue Type +	Ma	Location *	LS	
Category	evee	GPS La	atitud	le/Longitude		
Calegory		Start		End		
Item	Animal Co	ontrol		39.1344	90°	39.134490 °
пеш				-121.7497	16°	-121.749716°
DWR ID DWR_ST0010_02_f _ 2012_11						
Comment Code						

A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

### Inspector Comment

Repair the rodent hole.



View of the rodent hole above the irrigation pipe.

LM Start	<b>2.41</b> Rating ** M			Issue No.		8	
LM End	3.28	Issue Type +	Ma	Location *	WS		
Category	ental	GPS La	atitud	e/Longitude			
Calegory			Start		End		
Item		ACE Erosion S	Survey,	39.1422	54°	39.153150°	
item	DRAFT			-121.7428	47 °	-121.734611 °	
DWR ID DWR_ST0010_02_s _ 2016_8							
Comment Code							

### Inspector Comment

2010 - Over steepened levees, some slumping, reach-wide problem. 2011 - Still a reach-wide problem. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD\_2-4\_R]

LM Start	2.41	Rating **	М	Issue No.	8 (cont)
LM End	3.28	Issue Type +	Ma	Location *	WS

### Photo 1 of 2: SP\_2017\_ST0010\_43\_8\_20170315\_00008.jpg



View of erosion along the waterside toe.

Photo 2 of 2: SP\_2017\_ST0010\_43\_8\_20170315\_00009.jpg



View of the erosion along the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	2.95	Rating **	М	Issue No.	e No. 21		
LM End	2.95	Issue Type +	Ma	Location *		WS	
Category	evee	GPS La	atitud	le/Longitude			
Calegory				Start		End	
Item	Slope Sta	bility		39.1489	38°	39.148938 °	
пеш				-121.7376	20°	-121.737620 °	
DWR ID DWR_ST0010_02_f _ 2016_21							
	Comment Code						

S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.

#### Inspector Comment

Ramp is causing depression in the levee slope.



View the ramp encroaching into the levee.

LM Start	3.00	Rating **	М	Issue No.		28	
LM End	3.00	Issue Type +	Ma	Location *		WS	
Supplemental			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	DWR UCIP LMA Responsibility			39.149561 °		39.149561	0
item				-121.7370	80°	-121.737080	0
DWR ID							

### Comment Code

#### Inspector Comment

FS\_ID:51515 DS\_ID:17077 EP\_NO: 7209 Penair Type: Non-I

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe O&M pipe replaced with new 30inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)]. FS Date: 4/12/2017 10:16:27 AM

# Photo 1 of 3: UCIP\_SP\_2017\_51515\_64744.jpg



Bush camoflauging outlet of pipe on WS slope.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	3.00	Rating **	М	Issue No.		28 (cont)	
LM End	3.00	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCIP LMA Responsibility			39.14956	61 °	39.149561°	
пеш	item		-121.73708	30°	-121.737080°		
DWR ID							

# Comment Code

#### Inspector Comment

FS\_ID:51515 DS ID:17077 EP\_NO: 7209

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 4/10/2017 Tree still present and a problem at the WS pipe outlet. LS inlet is still vegetated. (DWR Sutter Yard-AFreitag)10/12/2016 Tree at the WS pipe end is still an issue and needs to be cut away. LS inlet is also being overgrown with vegetation.(DWR Sutter Yard - afreitag)4/19/2016 Tree at WS pipe end needs to be trimmed back and/or removed. 5/12/2015 Tree growing near WS pipe end is getting too big and will affect the crossing. It needs to be cut back or removed.11/18/2014 Same as last inspection.5/13/2014 Same as last inspection.10/29/2013 Same as last inspection.5/16/2013 Same as last inspection. FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe (permit records indicate 30-inch pipe O&M pipe replaced with new 30inch pipe) through the levee, 14 feet below the crown. Flap gate located on the waterside (WS) end. (original O&M manual crossing was replaced under Permit No. 7209, 1970 - Department of Water Resources) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 135, May 1953, (Station 158+35)]. FS Date: 4/12/2017 10:16:27 AM

i			D :: ++			
	LM Start	3.00	Rating **	М	Issue No.	28 (cont)
	I M End	3.00	Issue Type +	Ma	Location *	WS

# Photo 2 of 3: UCIP\_SP\_2017\_51515\_64743.jpg



Heavy vegetation at LS inlet at channel.

### Photo 3 of 3: UCIP\_SP\_2017\_51515\_64742.jpg



Pipe and flap gate at WS outlet.

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	3.42	Rating **	М	Issue No.		4
LM End	3.42	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Erosion /	Bank Caving		39.1550	57°	39.155057°
item			-121.733985° -121.73			-121.733985 °
DWR ID DWR_ST0010_02_s _ 2012_4						
		Comn	nent Cod	le		
E1 : Note a	and monito	or erosion site	•			
		Inspecto	or Comm	nent		
Monitor the	e erosion a	t the watersid	e toe.			

Issue Type +

LM End

LT. NOIC 6	and monite	or crosion site	•						
Inspector Comment									
Monitor the	e erosion a	at the watersid	le toe.						
LM Start	3.42	Rating **	М	Issue No.	4 (cont)		Pho		

Ma

Location

WS



View of the erosion at the waterside toe.

Photo 2 of 2: SP\_2017\_ST0010\_43\_4\_20170315\_00003.jpg



View of the erosion at the waterside toe.

LM Start	3.54	Rating **	М	Issue No.		5	
LM End	3.93	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / Bank Caving			39.1567	53°	39.162113 °	
пеш				-121.733267 °		-121.730997 °	
DWR ID DWR_ST0010_02_s _ 2012_5							
		Comn	nent Coc	le			
E1 : Note	and monito	or erosion site					
Inspector Comment							
Monitor is the erosion at the waterside toe.							



View of the erosion along the waterside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

113 °						
997°						
DWR ID DWR_ST0010_02_s _ 2012_5						
Monitor is the erosion at the waterside toe.						
Comment Code E1 : Note and monitor erosion site.  Inspector Comment						

Photo 2 of 2 : SP_2017_ST0010_43_5_20	170315_00005.jpg
	the same of the sa
A MANAGEMENT	No. of the last of
	Manufacter W.
<b>设于中国企业人工</b>	
	11/04/2015

View of erosion at the waterside toe

LM Start	4.41	Rating **	М	Issue No.		9	
LM End	4.43	Issue Type +	Ma	Location *	WS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
Item	2015 USACE Erosion Survey, DRAFT			39.168659°		39.168937°	
пеш				-121.7280	16°	-121.727905°	
DWR ID	DWR_ST0010_02_s _ 2016_9						
Comment Code							

#### Inspector Comment

2011 - Small erosion pocket. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: WAD\_4-3\_R]

LM Start	4.41	Rating **	М	Issue No.	9 (cont)
LM End	4.43	Issue Type +	Ma	Location *	WS

### Photo 1 of 2: SP\_2017\_ST0010\_43\_9\_20170315\_00010.jpg



View of the erosion along the waterside toe.

Photo 2 of 2 : SP\_2017\_ST0010\_43\_9\_20170315\_00011.jpg



View of the erosion along the waterside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

# **Sutter Maintenance Yard Wadsworth Canal**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Wadsworth Canal	Right	4.60	04/11/2017 04/11/2017	Bob Duffey

LM Start	4.47	Rating **	M	Issue No.	7		
LM End	4.49	Issue Type +	Ма	Location *	WS		
Category	Earthen Levee			GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion / Bank Caving			39.169532°		39.169800°	
пеш				-121.727860 °		° -121.727703°	
DWR ID DWR_ST0010_02_s _ 2012_7							
Comment Code							
E1 : Note and monitor erosion site.							
Inspector Comment							
Monitor the erosion along the waterside toe.							

LM Start	4.47	Rating **	М	Issue No.	7 (cont)
LM End	4.49	Issue Type +	Ma	Location *	WS



View of the erosion along the W/S toe.

Photo 2 of 2: SP\_2017\_ST0010\_43\_7\_20170315\_00007.jpg



View of the erosion along the waterside toe.